Bruhat Bangalore Mahanagara Palike
Executive Engineer Yelahanka Division

Name of Work: Modified Estimate For Improvements to roads and Drains at Basavalingappa badavane and Rajiv Gandhinagara and Chikkabettahalli in ward no-03 of Yelahanka Satellite Town Sub Division

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Civil Work								
1	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(I No-19.1, P No-143), 8km lead								
	RCC Drain								
	Doddabettahalll								
	KEB opp Rd LHS	1	150.00	1.10	0.90	148.50			
	KEB opp Rd RHS	1	97.60	1.10	0.90	96.62			
	Madeshwara layout								
	Main Rd LHS	1	132.30	1.10	0.90	130.98			
	Main Rd RHS	1	115.00	1.10	0.90	113.85			
	Cross Rd LHS	1	101.50	1.10	0.90	100.49			
	Cross Rd RHS	1	79.30	1.10	0.90	78.51			
	GOVT School Rd	1	37.40	1.10	0.90	37.03			
		1	38.30	1.10	0.90	37.92			
	Cross Rd-1	1	63.50	1.00	0.90	57.15			
	Cross Rd-2	1	47.70	1.00	0.90	42.93			
	MRP BAR Rd LHS	1	128.20	1.10	0.90	126.92			
	MRP BAR Rd RHS	1	317.70	1.10	0.90	314.52			
	5th Cross Rd	2	24.00	1.00	0.90	43.20			
	Connecting RD-1	2	17.00	1.10	0.90	33.66			
	Connecting RD-2	1	24.20	1.10	0.90	23.96			
	Chikbettahalli Colony								
	Cross rd-5	1	61.20	1.10	0.90	60.59			
	Cauvery Layout								
	L-shape Drain	1	43.30	1.10	0.90	42.87			
	Culvert								
	Doddabettahalli								
	Wines Rd LHS	4	6.60	1.50	0.90	35.64			
	Wines Rd RHS	2	9.50	1.50	0.90	25.65			
	Madeshwara layout								
	Main Road LHS	4	5.74	1.50	0.90	31.00			
	Main Road RHS	1	5.50	1.50	0.90	7.43			
	Cross Rd RHS	1	5.40	1.50	0.90	7.29			
						1596.68	**Cum**		
				Upto 125%		**1542.10**	**Cum**	**225.94**	**348416.46**
	Approved Rate	225.94		**Above 125%**		**54.58**	**Cum**	**225.94**	**12331.83**
	Filling in foundation with granite/trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications. Data Rate								
2	a) 40mm Jelly								
						0.00	**Cum**	**1995.10**	**0.00**

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
3	b) 20mm Jelly								
						0.00	Cum	1995.10	0.00
4	c) Coarse sand.								
						0.00	Cum	2782.22	0.00
5	d) Fine Sand								
						0.00	Cum	2782.22	0.00
6	e) 12.5mm chips								
						0.00	Cum	1995.10	0.00
7	Supplying, laying and jointing HDPE pipes of specified grade and conforming to IS 4984- 995 with latest amendments and conveyingto work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle Tee, stub ends, flanged sets, bends, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc. for : **HDPE Grade PE80-PN6.0, 630 mm dia.** (Perforated Pipe for Rain Water Harvesting Pit) (BWSSB SR 2017-18, Pg No 121 Item No. 1.17 Code No. K010Q)								
	0.63m dia HDPE Perforated								
						0.00	M	11358.02	0.00
	Approved Rate	11358.02							
8	**Providing of Geonets** for Rain Water Harvesting pit on top of the filter media as specified indrawings or as approved by Engineer Incharge. Data Rate								
						0.00	Sqm	74.55	0.00
	Approved Rate	74.55							
9	KSRRB M2100-10. Providing and laying **Plain cement concrete of mix 1:3:6** with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18)								
	RCC Drain								
	Doddabettahalli								
	KEB opp Rd LHS	1	150.00	1.10	0.15	24.75			
	KEB opp Rd RHS	1	97.60	1.10	0.15	16.10			
	Madeshwara layout								
	Main Rd LHS	1	132.30	1.10	0.15	21.83			
	Main Rd RHS	1	115.00	1.10	0.15	18.98			
	Cross Rd LHS	1	101.50	1.10	0.15	16.75			
	Cross Rd RHS	1	79.30	1.10	0.15	13.08			
	GOVT School Rd	1	37.40	1.10	0.15	6.17			
		1	38.30	1.10	0.15	6.32			
	Cross Rd-1	1	63.50	1.00	0.15	9.53			
	Cross Rd-2	1	47.70	1.00	0.15	7.16			
	MRP BAR Rd LHS	1	128.20	1.10	0.15	21.15			
	MRP BAR Rd RHS	1	317.70	1.10	0.15	52.42			
	5th Cross Rd	2	24.00	1.00	0.15	7.20			
	Connecting RD-1	2	17.00	1.10	0.15	5.61			

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Connecting RD-2	1	24.20	1.10	0.15	3.99			
	Chikbettahalli Colony								
	Cross rd-5	1	61.20	1.10	0.15	10.10			
	Cauvery Layout								
	L-shape Drain	1	43.30	1.10	0.15	7.14			
	Culvert								
	Doddabettahalli								
	Wines Rd LHS	4	6.60	1.50	0.15	5.94			
	Wines Rd RHS	2	9.50	1.50	0.15	4.28			
	Madeshwara layout								
	Main Road LHS	4	5.60	1.50	0.15	5.04			
	Main Road RHS	1	5.50	1.50	0.15	1.24			
	Cross Rd RHS	1	5.40	1.50	0.15	1.22			
	For C.C Road								
	Dismantling Of C.C Road								
	Doddabettahalli								
	Cross Rd-1	1	48.50	4.25	0.15	30.92			
	Cross Rd-2	1	65.50	5.10	0.15	50.11			
	Main Rd	1	104.80	5.11	0.15	80.33			
	Madeshwara layout								
	Cross Rd	1	100.20	4.52	0.15	67.94			
	Chikbettahalli Colony								
	Left side								
	Cross rd-1	1	46.40	4.15	0.15	28.88			
	Cross rd-2	1	34.50	3.80	0.15	19.67			
	Cross rd-3	1	37.30	4.20	0.15	23.50			
	Cross rd-4	1	88.60	3.70	0.15	49.17			
	New Formation								
	Doddabettahalli								
	BBMP Office Rd	1	45.80	5.28	0.15	36.27			
	Cross rd-1	1	39.70	4.32	0.15	25.71			
	Cross rd-2	1	77.70	3.33	0.15	38.75			
	Cross rd-3	1	10.20	2.95	0.15	4.51			
	Cross rd-4	1	71.40	3.47	0.15	37.16			
	Rajjev Gandhi Nagara								
	Cross Rd-3	1	89.90	4.52	0.15	60.95			
	Cross RD-A	1	34.50	3.40	0.15	17.60			
	Cross RD-B	1	18.50	3.78	0.15	10.49			
	Approved Rate	5690.28				847.95	Cum	5690.28	4825096.93
10	Providing and laying plain/reinforced cement concrete for side drains using **M20 nominal mix concrete with OPC at 300 kgs.** With 20mm and sown size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compcted for walls and bottom including centring shuttering cost of material HOM of machinary curing etc., complete execluding cost of steel as per MORTH specification no. 1500, 1700, 2200 including cost of material labour HOM complete as per specification. (P.No.271, I.No.37.59.2 of PW, P&IWTD S.R								
	RCC Drain								
	Raft								
	Doddabettahalli								
	KEB opp Rd LHS	1	150.00	0.90	0.15	20.25			
	KEB opp Rd RHS	1	97.60	0.90	0.15	13.18			

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Madeshwara layout								
	Main Rd LHS	1	132.30	0.90	0.15	17.86			
	Main Rd RHS	1	115.00	0.90	0.15	15.53			
	Cross Rd LHS	1	101.50	0.90	0.15	13.70			
	Cross Rd RHS	1	79.30	0.90	0.15	10.71			
	GOVT School Rd	1	37.40	0.90	0.15	5.05			
		1	38.30	0.90	0.15	5.17			
	Cross Rd-1	1	63.50	0.75	0.15	7.14			
	Cross Rd-2	1	47.70	0.75	0.15	5.37			
	MRP BAR Rd LHS	1	128.20	0.90	0.15	17.31			
	MRP BAR Rd RHS	1	317.70	0.90	0.15	42.89			
	5th Cross Rd	2	24.00	0.75	0.15	5.40			
	Connecting RD-1	2	17.00	0.90	0.15	4.59			
	Connecting RD-2	1	24.20	0.90	0.15	3.27			
	Chikbettahalli Colony								
	Cross rd-5	1	61.20	0.90	0.15	8.26			
	Cauvery Layout								
	L-shape Drain	1	43.30	0.90	0.15	5.85			
	Wall								
	Doddabettahalli								
	KEB opp Rd LHS	2	150.00	0.15	0.60	27.00			
	KEB opp Rd RHS	2	97.60	0.15	0.60	17.57			
	Madeshwara layout								
	Main Rd LHS	2	132.30	0.15	0.60	23.81			
	Main Rd RHS	2	115.00	0.15	0.67	23.05			
	Cross Rd LHS	2	101.50	0.15	0.60	18.27			
	Cross Rd RHS	2	79.30	0.15	0.60	14.27			
	GOVT School Rd	2	37.40	0.15	0.60	6.73			
		2	38.30	0.15	0.60	6.89			
	Cross Rd-1	2	63.50	0.15	0.60	11.43			
	Cross Rd-2	2	47.70	0.15	0.60	8.59			
	MRP BAR Rd LHS	2	128.20	0.15	0.60	23.08			
	MRP BAR Rd RHS	2	317.70	0.15	0.60	57.19			
	5th Cross Rd	4	24.00	0.15	0.60	8.64			
	Connecting RD-1	4	17.00	0.15	0.60	6.12			
	Connecting RD-2	2	24.20	0.15	0.60	4.36			
	Chikbettahalli Colony								
	Cross rd-5	2	61.20	0.15	0.60	11.02			
	Cauvery Layout								
	L-shape Drain	2	43.30	0.15	0.60	7.79			
						477.31			
	Culvert Raft								
	Doddabettahalli								
	Wines Rd LHS	4	6.60	1.20	0.20	6.34			
	Wines Rd RHS	2	9.50	1.20	0.20	4.56			
	Madeshwara layout								
	Main Road LHS	4	5.60	1.20	0.20	5.38			
	Main Road RHS	1	5.50	1.20	0.20	1.32			
	Cross Rd RHS	1	5.40	1.20	0.20	1.30			
	Culvert Wall								
	Doddabettahalli								
	Wines Rd LHS	8	6.60	0.23	0.60	7.29			

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Wines Rd RHS	4	9.50	0.23	0.60	5.24			
	Madeshwara layout								
	Main Road LHS	8	5.74	0.23	0.60	6.34			
	Main Road RHS	2	5.50	0.23	0.60	1.52			
	Cross Rd RHS	2	5.40	0.23	0.60	1.49			
						40.76			
						518.08	Cum		
				Upto 125%		508.23	Cum	7420.17	3771155.49
				Above 125%		9.85	Cum	7420.17	73057.26
	Approved Rate	7420.17							
11	KSRRB - M2300-14: **Providing TMT steel reinforcement** for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.MORTH Specification No. 1600 & 2200 for TMT bars Fe 500. (P.No.239, I.No.29.29.2 of PW, P&IWTD S.R 2018-19)								
	RCC Drain								
	For Drain 60kg/cum		477.31	0.06		28.64			
	For Culvert 90kg/cum		40.76	0.09		3.67			
						32.31	Tn		
				Upto 125%		31.54	Tn	77654.86	2449137.09
				Above 125%		0.77	Tn	77654.86	59693.94
	Approved Rate	77654.86							
12	Providing and Fixing **pre cast covering Slab 100mm thick** made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge. (Data Rate)								
	Data rate								
	Precast Slab								
	Doddabettahalli								
	KEB opp Rd LHS	1	150.00	0.90		135.00			
	KEB opp Rd RHS	1	97.60	0.90		87.84			
	Madeshwara layout								
	Main Rd LHS	1	132.30	0.90		119.07			
	Main Rd RHS	1	115.00	0.90		103.50			
	Cross Rd LHS	1	101.50	0.90		91.35			
	Cross Rd RHS	1	79.30	0.90		71.37			
	GOVT School Rd	1	37.40	0.90		33.66			
		1	38.30	0.90		34.47			
	Cross Rd-1	1	63.50	0.75		47.63			
	Cross Rd-2	1	47.70	0.75		35.78			
	MRP BAR Rd LHS	1	210.30	0.90		189.27			
	MRP BAR Rd RHS	1	293.20	0.90		263.88			
	5th Cross Rd	2	24.00	0.75		36.00			
	Connecting RD-1	2	17.00	0.90		30.60			
	Connecting RD-2	1	24.20	0.90		21.78			
	Chikbettahalli Colony								
	Cross rd-5	1	61.20	0.90		55.08			
	Cauvery Layout								
	L-shape Drain	1	43.30	0.90		38.97			

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
						1395.24	Sqm		
				Upto 125%		1248.38	Sqm	2452.68	3061866.27
				Above 125%		146.87	Sqm	2452.68	360213.07
	Approved Rate	2452.68							
13	Providing and fixing RCC precast cover slab of 250mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	Data rate								
	Doddabettahalli								
	Wines Rd LHS	4	6.60	1.20		31.68			
	Wines Rd RHS	2	9.50	1.20		22.80			
	Madeshwara layout								
	Main Road LHS	4	5.68	1.20		27.25			
	Main Road RHS	1	5.50	1.20		6.60			
	Cross Rd RHS	1	5.40	1.20		6.48			
						94.81	Sqm		
				Upto 125%		81.00	Sqm	5686.19	460581.47
				Above 125%		13.81	Sqm	5686.19	78551.32
	Approved Rate	5686.19							
14	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete. As per the direction of Engineer incharge. (P.No.27, I.No.5.30 of PW, P&IWTD SR								
	Basic Rate Rs.=								
	Add 6% A.W Rs. =								
	Total Rate Rs. =								
	For Kerb Stone								
	Doddabettahalli								
	Cross Rd-1 RHS	1	63.50			63.50			
	Cross Rd-1 LHS	1	67.30			67.30			
	Cross Rd-2	2	47.70			95.40			
	Main Rd LHS	1	104.00			104.00			
	Main Rd RHS	1	58.00			58.00			
	5th Cross Rd LHS	1	82.00			82.00			
	5th Cross Rd RHS	1	91.00			91.00			
	MRP BAR Rd LHS	1	245.20			245.20			
	MRP BAR Rd RHS	1	317.70			317.70			
	Connecting RD-1	2	17.00			34.00			
	Connecting RD-2	2	24.20			48.40			
	Madeshwara layout								
	Main Rd LHS	1	132.30			132.30			
	Main Rd RHS	1	115.00			115.00			
	GOVT School Rd	1	37.40			37.40			
		1	38.30			38.30			
	Cauvery Layout								
	L-shape Drain	1	43.30			43.30			
	Cauvery Layout								
	Main Road LHS	1	183.60			183.60			

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Main Road RHS	1	141.80			141.80			
	Cross Rd-1 LHS	1	103.00			103.00			
	Cross Rd-1 RHS	1	136.60			136.60			
	Rajjev Gandhi Nagara								
	Cross Rd-3 LHS	1	75.00			75.00			
	Cross Rd-5 LHS	1	84.70			84.70			
	Cross Rd-5 RHS	1	80.50			80.50			
	Cross Rd-6 LHS	1	115.00			115.00			
	Cross Rd-6 RHS	1	120.00			120.00			
						2613.00			
						5807.00	Nos		
				Upto 125%		2361.25	Nos	453.89	1071742.47
				Above 125%		3445.75	Nos	453.89	1563983.75
	Approved Rate	453.89							
15	Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 Specification No. KSRRB M800-6. (P.No.180, I.No.24.1 of PW, P&IWTD SR 2018-19)								
	For Kerb Stone								
	Doddabettahalli								
	Cross Rd-1 RHS	1	63.50		0.30	19.05			
	Cross Rd-1 LHS	1	67.30		0.30	20.19			
	Cross Rd-2	2	47.70		0.30	28.62			
	Main Rd LHS	1	104.00		0.30	31.20			
	Main Rd RHS	1	58.00		0.30	17.40			
	5th Cross Rd LHS	1	82.00		0.30	24.60			
	5th Cross Rd RHS	1	91.00		0.30	27.30			
	MRP BAR Rd LHS	1	245.20		0.30	73.56			
	MRP BAR Rd RHS	1	317.70		0.30	95.31			
	Connecting RD-1	2	17.00		0.30	10.20			
	Connecting RD-2	2	24.20		0 30	14.52			
	Madeshwara layout								
	Main Rd LHS	1	132.30		0.30	39.69			
	Main Rd RHS	1	115.00		0.30	34.50			
	GOVT School Rd	1	37.40		0.30	11.22			
		1	38.30		0.30	11.49			
	Cauvery Layout								
	L-shape Drain	1	43.30		0.30	12.99			
	Cauvery Layout								
	Main Road LHS	1	183.60		0.30	55.08			
	Main Road RHS	1	141.80		0.30	42.54			
	Cross Rd-1 LHS	1	103.00		0.30	30.90			
	Cross Rd-1 RHS	1	136.60		0.30	40.98			
	Rajjev Gandhi Nagara								
	Cross Rd-3 LHS	1	75.00		0.30	22.50			
	Cross Rd-5 LHS	1	84.70		0.30	25.41			
	Cross Rd-5 RHS	1	80.50		0.30	24.15			
	Cross Rd-6 LHS	1	115.00		0.30	34.50			
	Cross Rd-6 RHS	1	120.00		0.30	36.00			
						783.90	Sqm		
				Upto 125%		318.75	Sqm	89.00	28367.99
				Above 125%		465.15	Sqm	89.00	41397.23

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Approved Rate	89.00							
16	KSRRB M300-14. **Excavation for roadwork in all types of soil** by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 8km lead= (I No-19.14,P No-143,KPWD SR 2018-19)								
	New Formation								
	Doddabettahalli								
	Madeshwara layout								
	Main Rd	1	152.10	5.46	0.25	207.62			
	Chikbettahalli Colony								
	Main rd	1	196.10	6.09	0.25	298.56			
	Basavalingappa Nagara								
	Main Road	1	236.80	10.93	0.25	647.20			
	Rajeev Gandhi Nagara								
	Cross Rd-6	1	125.00	6.75	0.25	210.96			
	Cross Rd-5	1	84.40	6.65	0.25	140.32			
	Cross Rd-7	1	72.00	6.34	0.25	114.12			
	Cross Rd-8	1	36.30	4.37	0.25	39.66			
	Main Road	1	98.10	6.73	0.25	165.00			
	Cross Rd	1	247.00	5.00	0.25	308.75			
	C.C Road								
	New Formation								
	Doddabettahalli								
	BBMP Office Rd	1	45.80	5.28	0.25	60.46			
	Cross rd-1	1	39.70	4.32	0.25	42.86			
	Cross rd-2	1	77.70	3.33	0.25	64.59			
	Cross rd-3	1	10.20	2.95	0.25	7.52			
	Cross rd-4	1	71.40	3.47	0.25	61.94			
	Rajjev Gandhi Nagara								
	Cross Rd-3	1	89.90	4.52	0.25	101.59			
	Cross RD-A	1	34.50	3.40	0.25	29.33			
	Cross RD-B	1	18.50	3.78	0.25	17.48			
						2517.94	**Cum**		
				Upto 125%		**1665.75**	**Cum**	**67.11**	**111780.20**
				Above 125%		**852.19**	**Cum**	**67.11**	**57186.52**
	Approved Rate	67.11							
17	KSRRB 300-46. **Scarifying by mechanical means** stone metal crust 50mm to 100mm thick by along with 20mm premix carpet / surface dressing and stacking of old serviceable materials including cost of all labour charges, HOM complete as per specifications.(P.No-146,I No-19.52)								
						0.00	**Sqm**	**43.39**	**0.00**
18	**Construction of granular sub-base Grading-V** as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision.(I No-20.5,P No-153)								
	New Formation								
	Doddabettahalli								

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Madeshwara layout								
	Main Rd	1	152.10	5.46	0.15	124.57			
	Chikbettahalli Colony								
	Main rd	1	196.10	6.09	0.15	179.14			
	Basavalingappa Nagara								
	Main Road	1	236.80	10.93	0.15	388.32			
	Rajeev Gandhi Nagara								
	Cross Rd-6	1	125.00	6.75	0.15	126.57			
	Cross Rd-5	1	84.40	6.65	0.15	84.19			
	Cross Rd-7	1	72.00	6.34	0.15	68.47			
	Cross Rd-8	1	36.30	4.37	0.15	23.79			
	Main Road	1	98.10	6.73	0.15	99.00			
	Cross Rd	1	247.00	5.00	0.15	185.25			
						1279.31	**Cum**	**2093.67**	**2678456.35**
19	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-								
	New Formation								
	Doddabettahalli								
	Madeshwara layout								
	Main Rd	1	152.10	5.46	0.225	186.85			
	Chikbettahalli Colony								
	Main rd	1	196.10	6.09	0.225	268.71			
	Basavalingappa Nagara								
	Main Road	1	236.80	10.93	0.225	582.48			
	Rajeev Gandhi Nagara								
	Cross Rd-6	1	125.00	6.75	0.225	189.86			
	Cross Rd-5	1	84.40	6.65	0.225	126.28			
	Cross Rd-7	1	72.00	6.34	0.225	102.71			
	Cross Rd-8	1	36.30	4.37	0.225	35.69			
	Main Road	1	98.10	6.73	0.225	148.50			
	Cross Rd	1	247.00	5.00	0.225	277.88			
						1918.97	**Cum**	**2100.34**	**4030493.30**
20	KSRRB M500-6. Providing and **applying primer coat** with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications Clause 502 of MORTH V revision(P.No-158,I No-21.6), issue rate dated 01-07-2020								
	New Formation								
	Doddabettahalli								
	Madeshwara layout								
	Main Rd	1	152.10	5.46		830.47			
	Chikbettahalli Colony								
	Main rd	1	196.10	6.09		1194.25			
	Basavalingappa Nagara								
	Main Road	1	236.80	10.93		2588.82			
	Rajeev Gandhi Nagara								
	Cross Rd-6	1	125.00	6.75		843.83			
	Cross Rd-5	1	84.40	6.65		561.26			
	Cross Rd-7	1	72.00	6.34		456.48			

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Cross Rd-8	1	36.30	4.37		158.63			
	Main Road	1	98.10	6.73		660.02			
	Cross Rd	1	247.00	5.00		1235.00			
						8528.75	**Sqm**	**31.15**	**265663.40**
21	KSRRB 500-2. **Cleaning the existing black topped** surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM complete as per specifications.(P.No-158,I No-21.2), issue rate dated 01-07-2020								
	TC- PC area					0.00			
						0.00	**Sqm**	**5.56**	**0.00**
22	KSRRB 500-7. Providing and applying **tack coat** using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications (P.No-161,I No-21.7) issue rate dated 01-07-2020								
	New Formation								
	Doddabettahalli								
	Madeshwara layout								
	Main Rd	1	152.10	5.46		830.47			
	Chikbettahalli Colony								
	Main rd	1	196.10	6.09		1194.25			
	Basavalingappa Nagara								
	Main Road	1	236.80	10.93		2588.82			
	Rajeev Gandhi Nagara								
	Cross Rd-6	1	125.00	6.75		843.83			
	Cross Rd-5	1	84.40	6.65		561.26			
	Cross Rd-7	1	72.00	6.34		456.48			
	Cross Rd-8	1	36.30	4.37		158.63			
	Main Road	1	98.10	6.73		660.02			
	Cross Rd	1	247.00	5.00		1235.00			
						8528.75	**Sqm**	**13.35**	**113855.74**
23	KSRRB M500-17. Providing and laying **dense graded bituminous macadam** using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No-160,I No-21.17.6), issue rate dated 01-07-2020								
	New Formation								
	Doddabettahalli								
	Madeshwara layout								
	Main Rd	1	152.10	5.46	0.05	41.52			
	Chikbettahalli Colony								
	Main rd	1	196.10	6.09	0.05	59.71			
	Basavalingappa Nagara								
	Main Road	1	236.80	10.93	0.05	129.44			
	Rajeev Gandhi Nagara								
	Cross Rd-6	1	125.00	6.75	0.05	42.19			
	Cross Rd-5	1	84.40	6.65	0.05	28.06			
	Cross Rd-7	1	72.00	6.34	0.05	22.82			
	Cross Rd-8	1	36.30	4.37	0.05	7.93			
	Main Road	1	98.10	6.73	0.05	33.00			

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
						266.31	Sqm	477.25	127093.96
26	KSRRB M800-35. **Supply and Installtion of Moulded Shank Raised Pavement Markers** made of polycarbonate and ABS(Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/ NH/33023/10-97 – DO III Dt 11.06. 1997. The height, width and length shall not exceed 50 mm, 100 mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 mm and height not less than 30 mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer.(P.No-187,I No-24.41)								
	Basavalingappa Nagara								
	Main Road	3	34.00			102.00			
						102.00	Nos	374.90	38,240.04
27	KSRRB M200-24. **Dismantling of cement concrete pavement** by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. Loading and unloading with 4km lead= (I No-18.47,P No-140,KPWD SR 2018-19)								
	Dismantling Of C.C Road								
	Doddabettahalli								
	Cross Rd-1	1	48.50	4.25	0.20	41.23			
	Cross Rd-2	1	65.50	5.10	0.20	66.81			
	Main Rd	1	104.80	5.11	0.20	107.11			
	Madeshwara layout								
	Cross Rd	1	100.20	4.52	0.20	90.58			
	Chikbettahalli Colony								
	Left side								
	Cross rd-1	1	46.40	4.15	0.20	38.51			
	Cross rd-2	1	34.50	3.80	0.20	26.22			
	Cross rd-3	1	37.30	4.20	0.20	31.33			
	Cross rd-4	1	88.60	3.70	0.20	65.56			
						467.35	Cum	1010.86	472423.60
28	**Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30** over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to(P.No-176,I No-22.6.1)								
	Basic rate								
	Area Weightage 6%								
	Total								

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Cross Rd	1	247.00	5.00	0.05	61.75			
						426.44	**Cum**	**6724.88**	**2867741.52**
24	Providing and laying **bituminous concrete 40mm thick** with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4 % of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic)(P.No-171,I No-21.78.12), issue rate dated 01-07-								
	Basic rate								
	Area Weightage 6%								
	Total								
	New Formation								
	Doddabettahalli								
	Madeshwara layout								
	Main Rd	1	152.10	5.46	0.04	33.22			
	Chikbettahalli Colony								
	Main rd	1	196.10	6.09	0.04	47.77			
	Basavalingappa Nagara								
	Main Road	1	236.80	10.93	0.04	103.55			
	Rajeev Gandhi Nagara								
	Cross Rd-6	1	125.00	6.75	0.04	33.75			
	Cross Rd-5	1	84.40	6.65	0.04	22.45			
	Cross Rd-7	1	72.00	6.34	0.04	18.26			
	Cross Rd-8	1	36.30	4.37	0.04	6.35			
	Main Road	1	98.10	6.73	0.04	26.40			
	Cross Rd	1	247.00	5.00	0.04	49.40			
						341.15	**Cum**	**7910.77**	**2698760.62**
25	KSRRB M800-13.**Road Marking** with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182,I No-24.15)								
	New Formation								
	Doddabettahalli								
	Madeshwara layout								
	Main Rd	2	152.10	0.10		30.42			
	Chikbettahalli Colony								
	Main rd	2	196.10	0.10		39.22			
	Basavalingappa Nagara								
	Main Road	2.5	236.80	0.10		59.20			
	Rajeev Gandhi Nagara								
	Cross Rd-6	2	125.00	0.10		25.00			
	Cross Rd-5	2	84.40	0.10		16.88			
	Cross Rd-7	2	72.00	0.10		14.40			
	Cross Rd-8	2	36.30	0.10		7.26			
	Main Road	2.5	98.10	0.10		24.53			
	Cross Rd	2	247.00	0.10		49.40			

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Dismantling Of C.C Road								
	Doddabettahalli								
	Cross Rd-1	1	48.50	4.25	0.15	30.92			
	Cross Rd-2	1	65.50	5.10	0.15	50.11			
	Main Rd	1	104.80	5.11	0.15	80.33			
	Madeshwara layout								
	Cross Rd	1	100.20	4.52	0.15	67.94			
	Chikbettahalli Colony								
	Left side								
	Cross rd-1	1	46.40	4.15	0.15	28.88			
	Cross rd-2	1	34.50	3.80	0.15	19.67			
	Cross rd-3	1	37.30	4.20	0.15	23.50			
	Cross rd-4	1	88.60	3.70	0.15	49.17			
	New Formation								
	Doddabettahalli								
	BBMP Office Rd	1	45.80	5.28	0.15	36.27			
	Cross rd-1	1	39.70	4.32	0.15	25.71			
	Cross rd-2	1	77.70	3.33	0.15	38.75			
	Cross rd-3	1	10.20	2.95	0.15	4.51			
	Cross rd-4	1	71.40	3.47	0.15	37.16			
	Rajjev Gandhi Nagara								
	Cross Rd-3	1	89.90	4.52	0.15	60.95			
	Cross RD-A	1	34.50	3.40	0.15	17.60			
	Cross RD-B	1	18.50	3.78	0.15	10.49			
						581.97	**Cum**	**5468.90**	**3182715.95**
	EIRL								
E1	KSRB 4-1.6 ; Providing and laying in position **plain cement concrete of Mix 1:2:4** with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2 (P.No-13,I No-4.3 of PWD BCSR 2018-19)								
	Basic Rate	5422.00							
	Area Weightage 6%	325.32							
	Total	**5747.32**							
	Above 4.95%	284.49							
		6031.81							
		Cum							
	For Kerb Stone								
	Doddabettahalli								
	Cross Rd-1 RHS	1	63.50	0.20	0.10	1.27			
	Cross Rd-1 LHS	1	67.30	0.20	0.10	1.35			
	Cross Rd-2	2	47.70	0.20	0.10	1.91			
	Main Rd LHS	1	104.00	0.20	0.10	2.08			
	Main Rd RHS	1	58.00	0.20	0.10	1.16			
	5th Cross Rd LHS	1	82.00	0.20	0.10	1.64			
	5th Cross Rd RHS	1	91.00	0.20	0.10	1.82			
	MRP BAR Rd LHS	1	245.20	0.20	0.10	4.90			
	MRP BAR Rd RHS	1	317.70	0.20	0.10	6.35			
	Connecting RD-1	2	17.00	0.20	0.10	0.68			

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Connecting RD-2	2	24.20	0.20	0.10	0.97			
	Madeshwara layout								
	Main Rd LHS	1	132.30	0.20	0.10	2.65			
	Main Rd RHS	1	115.00	0.20	0.10	2.30			
	GOVT School Rd	1	37.40	0.20	0.10	0.75			
		1	38.30	0.20	0.10	0.77			
	Cauvery Layout								
	L-shape Drain	1	43.30	0.20	0.10	0.87			
	Cauvery Layout								
	Main Road LHS	1	183.60	0.20	0.10	3.67			
	Main Road RHS	1	141.80	0.20	0.10	2.84			
	Cross Rd-1 LHS	1	103.00	0.20	0.10	2.06			
	Cross Rd-1 RHS	1	136.60	0.20	0.10	2.73			
	Rajjev Gandhi Nagara								
	Cross Rd-3 LHS	1	75.00	0.20	0.10	1.50			
	Cross Rd-5 LHS	1	84.70	0.20	0.10	1.69			
	Cross Rd-5 RHS	1	80.50	0.20	0.10	1.61			
	Cross Rd-6 LHS	1	115.00	0.20	0.10	2.30			
	Cross Rd-6 RHS	1	120.00	0.20	0.10	2.40			
						52.26	Cum	6031.81	315222.51
								Total Construction Cost	35165226.30
								Miscellaneous & Rounding Off	1,292.70
								Total	35166519.00

Assistant Engineer
Ward 03
BBMP Bangalore

Asst. Executive Engineer
Yelahanka New Town Sub Division
BBMP Bangalore

Executive Engineer
Yelahanka Division
BBMP Bangalore

Technical Sanction
Accorded For Rs 35166519
Head of A/C..P.3802.....
CER NO :..52..... Dt:..22.09.2021